

**Amendments to the Claims:****Listing of Claims:**

1. (Currently Amended) A method for the production of acrylic acid comprising:

a step of introducing a mixed gas containing propylene and molecular oxygen into a first reaction zone reactor packed with a complex oxide catalyst having molybdenum and bismuth as essential components and oxidizing propylene and obtaining an acrolein-containing gas;

a step of introducing said acrolein-containing gas into a second reactor reaction zone packed with a complex oxide catalyst having molybdenum and vanadium as essential components and obtaining an acrylic acid-containing gas;

and a step of introducing said acrylic acid-containing gas into an acrylic acid absorption column and causing it to contact an absorbent thereby obtaining an acrylic acid-containing solution in which comprises the steps of

(a) said first reaction zone and said second reaction zone being formed of different reaction tubes,

(b) a said mixed gas for introduction into said first reactor reaction zone having a propylene concentration in the range of 7 - 15 vol. % and a water concentration in the range of 0 - 10 vol. %, and

(b) e said acrylic acid-containing solution absorbed obtained in said acrylic acid absorption column having a water concentration in the range of 1 - 45 wt. %.

2. (Original) A method according to claim 1, wherein said absorbent is introduced into said acrylic acid absorption column at a mass flow rate in the range of 0.1 - 1.5 times the mass flow rate of propylene introduced into said first reaction zone.

3. (Original) A method according to claim 1, wherein a main component of said absorbent is water.

4. (Currently Amended) A method for the production of acrylic acid comprising a step of introducing a mixed gas containing propylene and molecular oxygen into a first reactor reaction zone packed with a complex oxide catalyst having molybdenum and bismuth as essential components and oxidizing propylene and obtaining an acrolein-containing gas, a step of introducing said acrolein-containing gas into a second reactor reaction zone packed with a

complex oxide catalyst having molybdenum and vanadium as essential components and obtaining an acrylic acid-containing gas, and a step of introducing said acrylic acid-containing gas into an acrylic acid absorption column and causing it to contact an absorbent thereby obtaining an acrylic acid-containing solution in which comprises the steps of

~~(a) said first reaction zone and said second reaction zone being formed of different reaction tubes,~~

~~(ab) said propylene concentration of said mixed gas introduced into said first reactor reaction zone being in the range of 7 - 15 vol. % and the water concentration in said mixed gas being in the range of 0 - 10 vol. %, and~~

~~(be) said water concentration of said acrylic acid-containing solution obtained in the acrylic acid absorption column being adjusted to a level in the range of 1 - 45 wt. % by adjusting the amount of an absorbent to be introduced.~~

5. (Original) A method according to claim 4, wherein the amount of said absorbent to be introduced is 0.1 - 1.5 times the mass flow amount of propylene introduced into said first reaction zone.

6. (Currently Amended) A method for the production of polyacrylic acid comprising the step of polymerizing using the acrylic acid obtained by the method set forth in claim 1.

7. (Previously Added) A method for the production of polyacrylic acid comprising using the acrylic acid obtained by the method set forth in claim 3.